

Fairbanks, AK

Advanced industries employ

2,190

full-time workers. (2013)

These direct jobs supports an additional

1,750

indirect jobs in other industries in the region.

Advanced industries produce

\$1.0

billion dollars in output in the region.
(2013, 2005 Chained)

Advanced industries pay, on average

\$111,850

dollars per year (2013).

Advanced industries directly account for

4.5%

of all jobs in the region.

This employment share is

#201

among all small metros.

This accounts for

16.0%

of all output in the region (2013).

This compares to average pay of

\$52,980

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.0%

2.7%

OUTPUT

1.9%

3.8%

Fairbanks, AK

U.S.

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U.S.

What are Advanced Industries?

The Metropolitan Policy Program at Brookings defines advanced industries as those that: 1) Spend at least \$450 per worker per year on R&D and 2) employ at least 20 percent of their workforce in STEM-intensive occupations. The definition identifies 50 4-digit NAICS industries across the manufacturing, energy, and services sectors that together constitute the advanced industries super-sector.

Why do Advanced Industries Matter?

Advanced industries encompass the nation's "tech" sector at its broadest and most consequential. They represent a sizable economic anchor for the U.S. economy and have led the post-recession employment recovery. Their competitiveness and growth are prerequisites for any future broadly shared prosperity. As such, the sector encompasses the country's best shot at supporting innovative, inclusive, and sustainable growth. Advanced industries are present in nearly every U.S. region, but the sector's geography is uneven.

For More Information

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www.brookings.edu/advancedindustries

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DATA NOTES

All figures reflect Brookings analysis of data from Moody's Analytics.

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Twenty-Five Largest Advanced Industries (2013)

Industry 4-Digit NAICS Code	Industry Title	Industry Employment (2013)	Industry Location Quotient (LQ) † 2013	Industry Share of Total Advanced Industries Employment (2013)	Industry Employment Annual Growth 2010-2013	Industry Share of Total Advanced Industries Output (2013)	Industry Output Annual Growth 2010-2013
2122	Metal Ore Mining	710	47.24	32.4%	14.1%	51.1%	8.8%
5413	Architecture & Engineering	330	0.71	14.9%	0.3%	4.4%	1.0%
2211	Power Generation & Supply	220	1.67	10.2%	1.9%	8.9%	1.1%
5416	Management Consulting	210	0.53	9.7%	-10.0%	3.1%	-10.5%
5417	R&D Services	190	0.88	8.6%	6.8%	4.2%	10.6%
5415	Computer Systems Design	160	0.27	7.1%	-5.4%	2.7%	-3.8%
3241	Petroleum & Coal Products	130	3.39	5.9%	-7.3%	12.6%	-14.3%
5179	Other telecommunications	60	1.99	2.6%	-5.7%	1.0%	-5.2%
5172	Wireless Telecom Carriers	50	0.88	2.1%	-6.9%	0.7%	-3.6%
2111	Oil & Gas Extraction	50	0.67	2.1%	9.8%	10.3%	6.6%
6215	Medical and Diagnostic Laboratories	30	0.31	1.2%	2.7%	0.2%	-7.9%
3339	General Purpose Machinery	10	0.12	0.5%	-3.1%	0.0%	-15.2%
3346	Magnetic & Optical Media	10	1.23	0.4%	10.1%	0.1%	8.4%
5191	Web Search Portals and Internet Publishing	10	0.11	0.3%	-4.4%	0.1%	-4.2%
3365	Railroad Rolling Stock Manufacturing	10	0.73	0.3%	0.0%	0.1%	-10.1%
3399	Misc. Manufacturing	10	0.06	0.3%	-9.1%	0.0%	-13.2%
5112	Software Products	10	0.05	0.2%	0.0%	0.1%	-4.5%
5182	Data Processing & Hosting	10	0.06	0.2%	0.0%	0.1%	15.5%
3271	Clay Product and Refractory Manufacturing	-	0.23	0.1%	14.5%	0.0%	2.5%
3333	Commercial & Service Machinery	-	0.10	0.1%	-9.1%	0.0%	-3.7%
3366	Ships & Boats	-	0.07	0.1%	0.0%	0.0%	-22.0%
3391	Medical Equipment & Supplies	-	0.03	0.1%	-9.1%	0.0%	-4.1%
5174	Satellite Telecommunications	-	0.97	0.1%	-9.1%	0.1%	-3.2%
3251	Basic Chemicals	-	0.04	0.1%	0.0%	0.0%	1.9%
3252	Resins & Synthetic Rubbers	-	0.03	0.0%	0.0%	0.0%	0.0%
Advanced industries manufacturing		180	0.10	8.1%	-5.8%	13.2%	-13.9%
Advanced industries energy		980	4.53	44.7%	10.6%	70.2%	7.4%
Advanced industries services		1,030	0.49	47.2%	-2.8%	16.6%	-1.3%
ADVANCED INDUSTRIES TOTAL		2,190	0.53	100.0%	2.0%	100.0%	1.9%

† Location quotients are a measure of specialization for an industry using employment. A LQ of over 1 indicates that an industry employs more workers, as a share of total employment, than the nation as a whole.